



## MAKING THE SWITCH TO OFFSITE CODING

### SITUATION ET OBJECTIVES

Easy Tech Infrastructure Group is a company committed to providing innovative solutions and products for the underground infrastructure industry. Our goal is to sell products and services that provide measurable value.

Water X Industrial Services Ltd., now a GFL Environmental Company was awarded a challenging project in Winnipeg which included 110 kms of CCTV pipe inspections including 17,800m which were multi sensor (e.g. Sonar, Laser, & CCTV). The timeline to complete this work was 65 working days.

At the time Water X was short staffed due to a large workload on other projects. This forced Water X into finding creative work processes and solutions.

### SOLUTION

Water X had done experiments with offsite coding in the past using Sharefile and Dropbox, but never at a large scale.

The benefits of uploading the raw footage into the cloud and coding the CCTV footage to NASSCO standards offsite/remotely seemed very attractive but unique from what Water X crews were accustomed to doing. After calculating the time and cost to code footage in the field, it was an easy financial decision to switch to coding offsite.

While searching for a program that could remotely handle and transfer large amounts of data, Water X reached out to CT Spec and inquired about CT Spec Cloud and the benefits of an all in one software and cloud-based program. CTSpec looked like an all-inclusive platform that could solve the challenges Water X faced and the software was purchased and installed in all units. The next challenge was execution.

Water X chose to team up with a contractor that would handle all the NASSCO Coding and deliverables to the client. For this particular project each CCTV van was equipped with a wireless data box and all CCTV footage was uploaded throughout the day. All coding was completed according to NASSCO standards by a team of professionals over 2,000 kms away

#### A Few Key Points Learned on this Project

1. The pipes on this contract were crooked and in very poor condition. This required the crawler camera to follow several meters behind the flushing nozzle to capture full visibility of the pipes. We learned that even small delays were expensive as the entire crew had to wait. Flusher, Water Truck, and traffic control. Coding in the field was an extra delay that we easily avoided.
2. Quality control can be done more efficiently and accurately in a controlled environment by professionals who specialize in processing high quality data for engineering firms.
3. The field crew's technical responsibility was decreased and inspection production immediately increased by 15 %.

4. Our measurable cost savings per meter due to increases production during offsite coding was \$0.60 per meter.

5. Additionally, we chose to hire a subcontractor to do our offsite coding. This saved us hiring 2 additional coding staff for the duration of this project resulting in an additional savings of \$0.32 per meter.

6. Total Cost savings for this project \$0.92 per meter on 110,000 Meters equalling an increased margin of \$101,200.00

### RESULTS

The Project was a great success and the decision to code offsite/remotely proved to be a good one. Although many industry professionals caution this approach, we believe this is the future of efficient CCTV inspections and coding. Water X was complimented by AECOM and the City of Winnipeg for great project and data management.

We believe every CCTV contractor should take a close look at the benefits of offsite coding. In most cases it makes sense to upload your CCTV footage into the cloud and have it coded to NASSCO standards in a controlled environment. Artificial intelligent (AI) software is in the future for this industry and we believe the early adopters of offsite coding will be the first contractors to benefit from this technology.

Contractors willing to push the boundaries of traditional onsite coding will be the first ones to financially benefit from any new technology. The financial benefits of offsite coding are already massive and only increasing as software processes get more efficient.